

# DIYbio

29 Feb 2009





# DIYbio

[Blog](#)
[Home](#)
[Local Groups](#)
[Mailing List & Event Calendar](#)
[Press](#)
[Projects](#)
[FriendFeed](#)
 search

as  
seen  
online!

## Local Groups

There are DIYbioers all over the globe! See if there is a meetup near you on the map below. If there is not, add your location and your contact information to the map, so others can get in touch with you - just don't forget to update it once you start a regular meetup!



View a larger map, or to add yourself or your group to the map. You'll need to sign into your Google account in order to add a new point. It's a little unclear, so here's a [screenshot of adding a new point](#)

### about us

DIYbio is an organization that aims to help make biology a worthwhile pursuit for citizen scientists, amateur biologists, and DIY biological engineers who value openness and safety. This will require mechanisms for amateurs to increase their knowledge and skills, access to a community of experts, the development of a code of ethics, responsible oversight, and leadership on issues that are unique to doing biology outside of traditional professional settings.

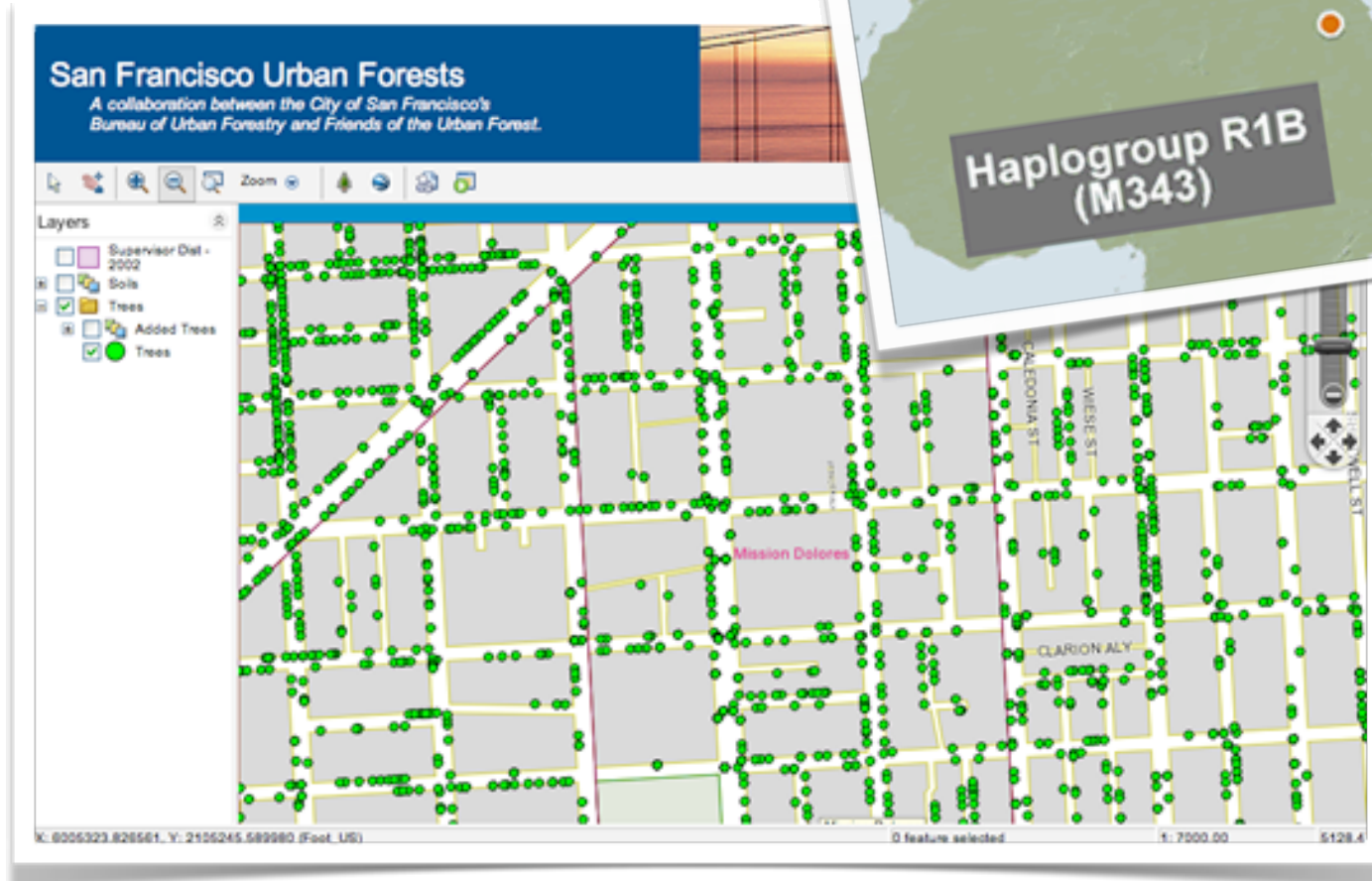
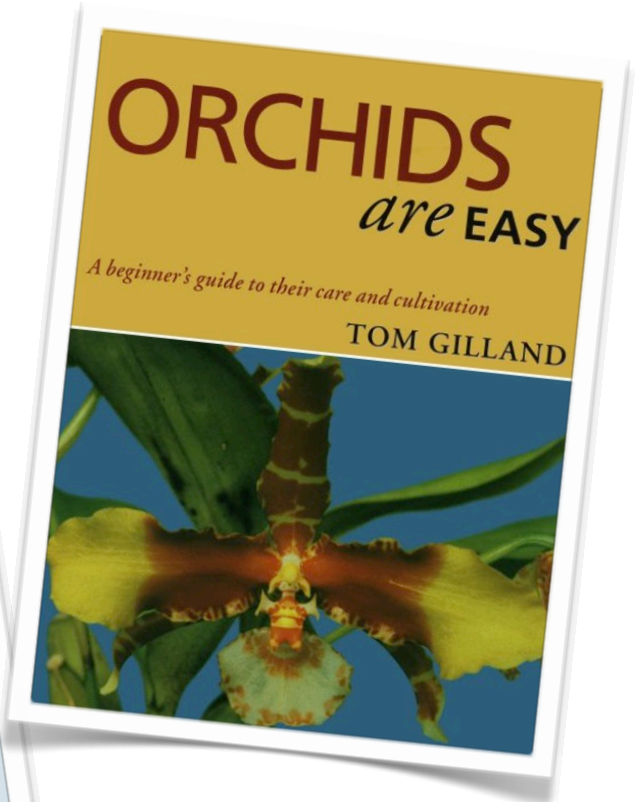
### recent comments

- Ana (Quo):** Hola Fernando, Soy una redactora de la revista Quo y estoy ...
- Nick See Weinberg:** Would someone please add CodeCon to the DIYbio G-Cal? Thanks...
- Charles Stone:** Hey everyone!



# diybio is naturalism

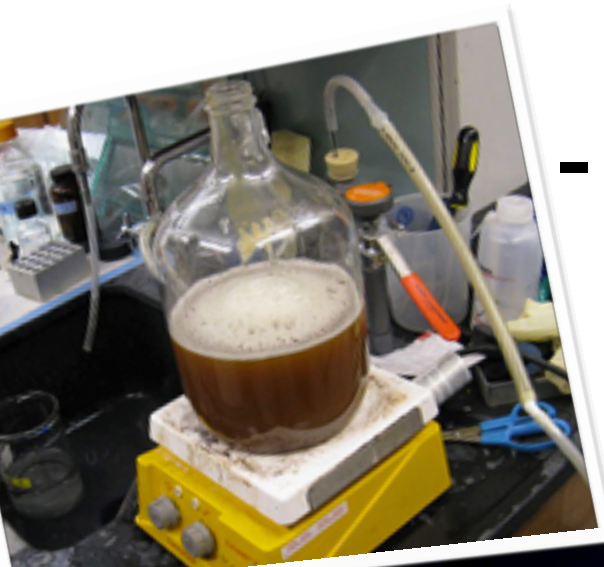
macroscopic  
to  
microscopic





# diybio is engineering

- graft a hybrid cranberry-apple tree
- or
- add resveratrol production to yeast  
(healthier beer!)



Ben Harris-Roxis / Flickr



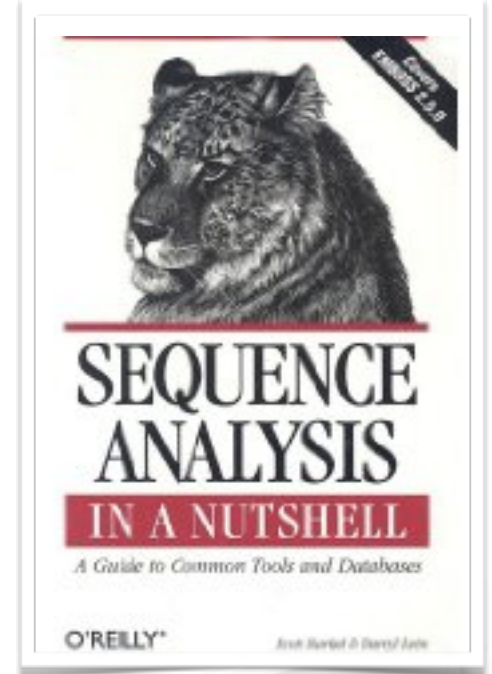


# diybio is more

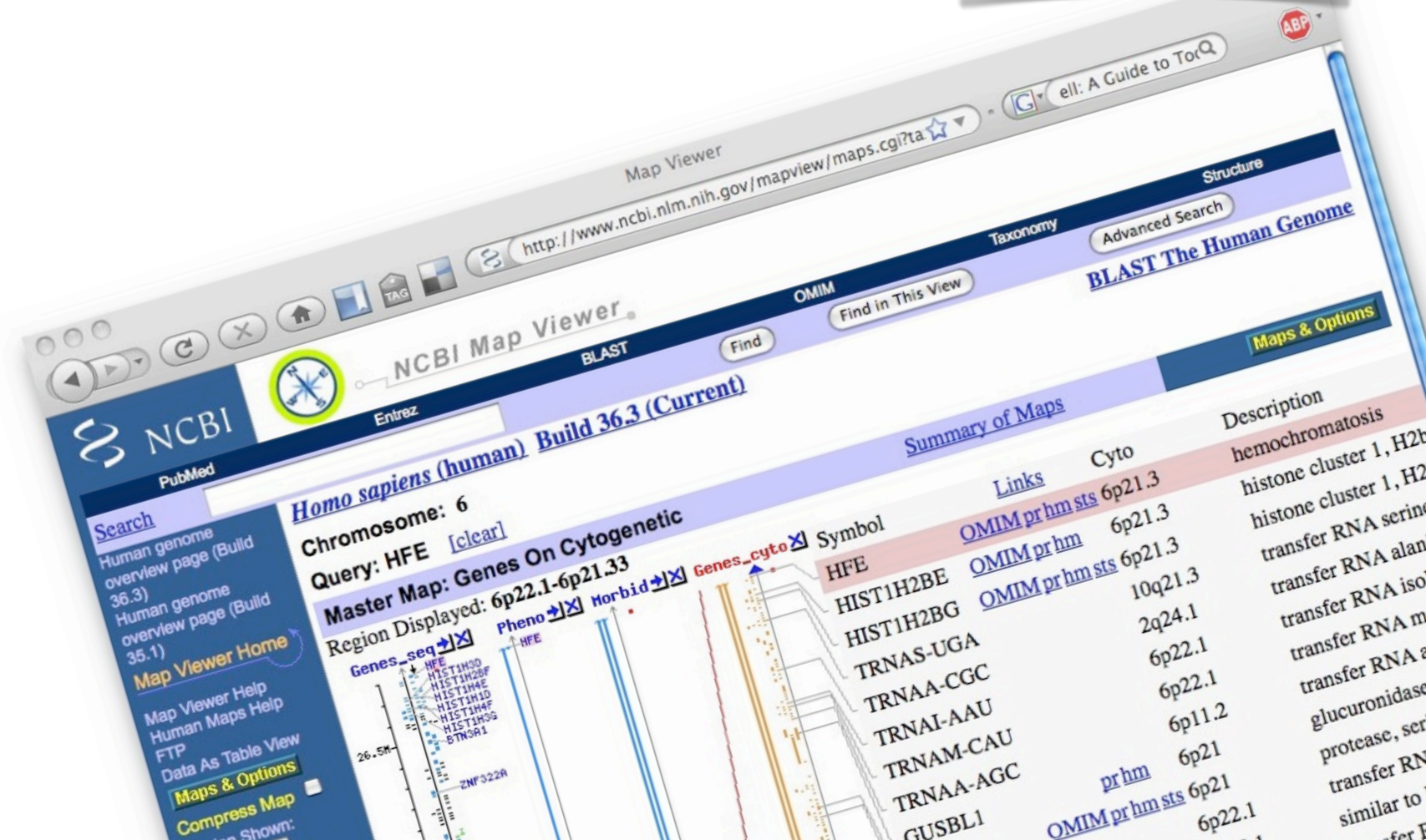
- hardware
- informatics
- art



working on the SmartLab table, Dec 08

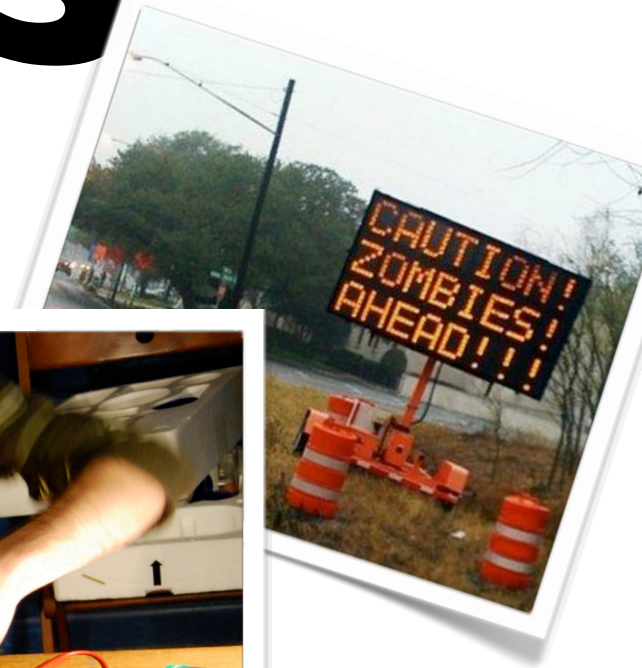


Alba, the fluorescent bunny (Eduardo Kac, 2000)





# Hacking is good.



**but you have to admit the  
word has a bad reputation.**

...and now some projects:



# 5-min dna extraction in a shot glass

just add:

saliva + soap + salt +  
160 proof rum

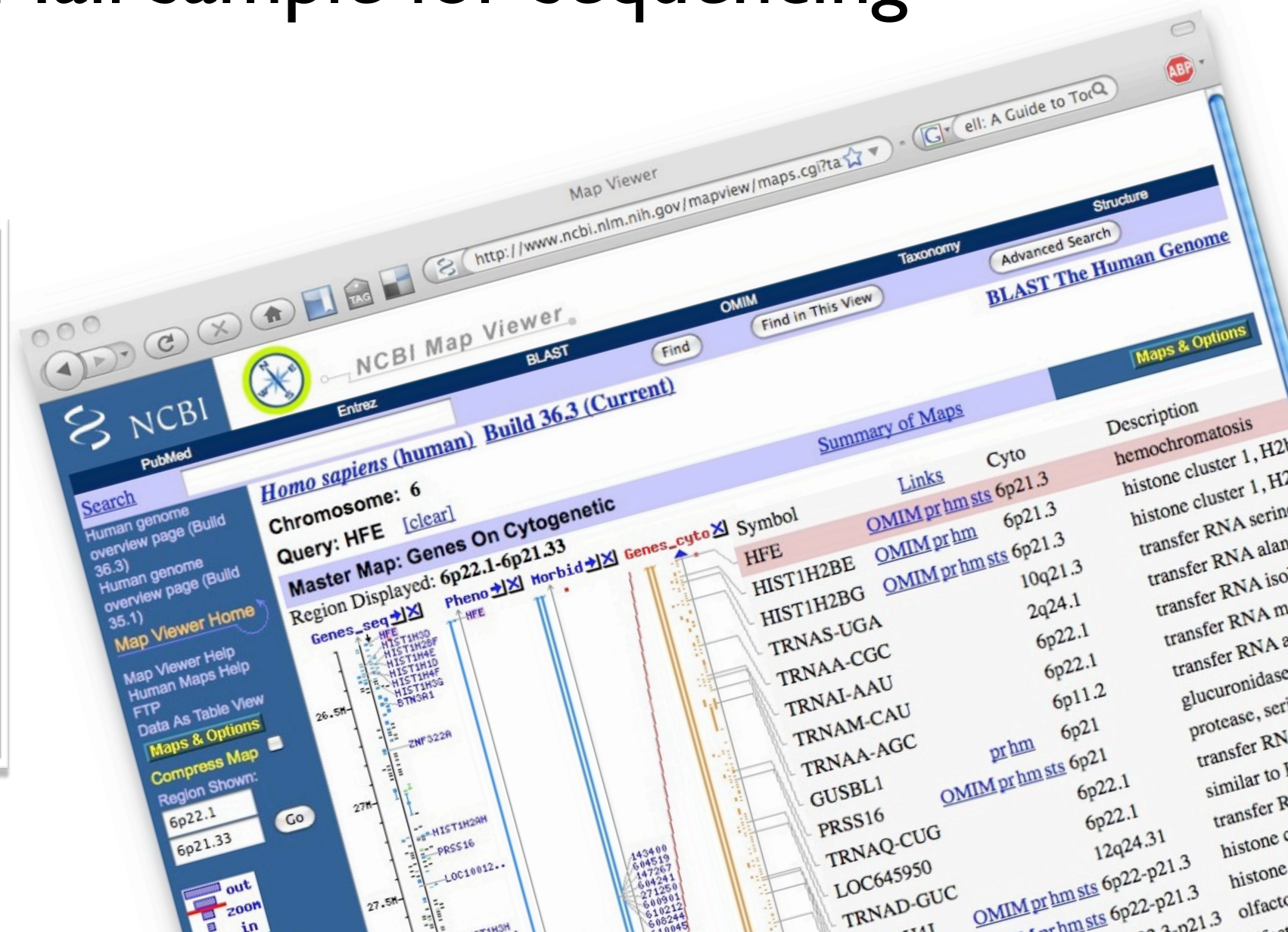
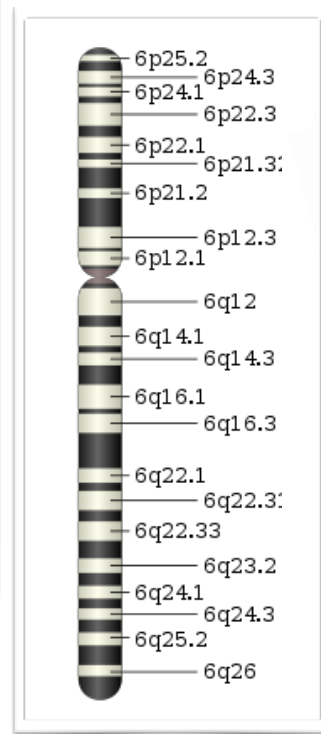




# self-genotyping

Is Kay a carrier of hemochromatosis on her 6th chromosome?

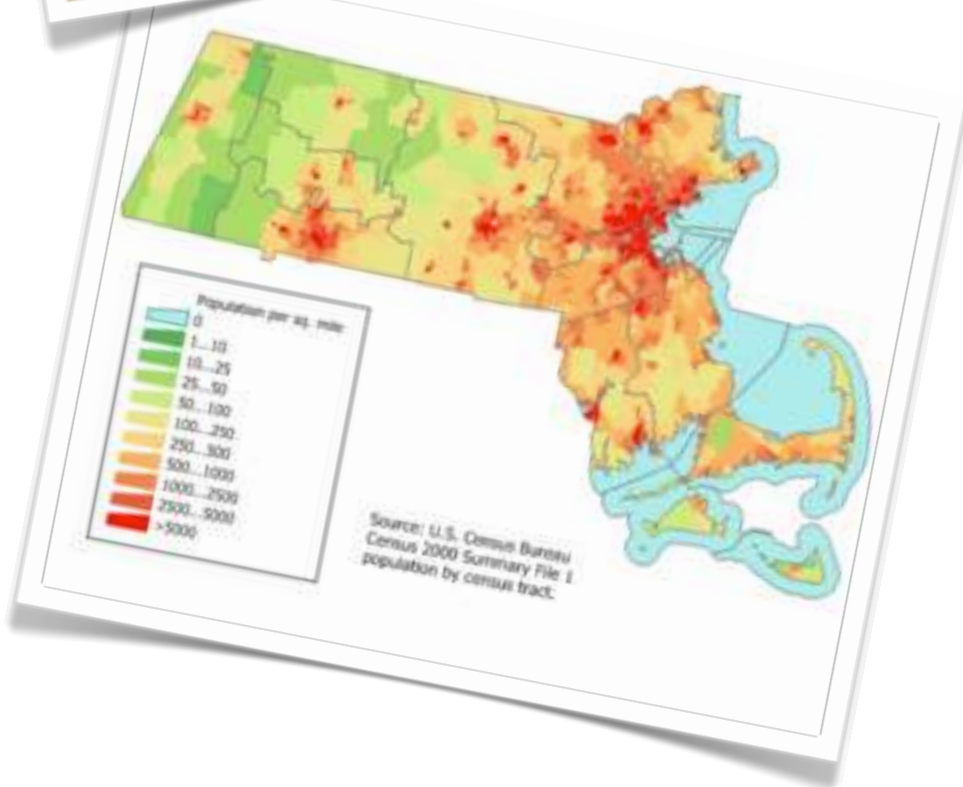
1. Allele-specific PCR at home
2. Mail sample for sequencing





# bioweathermaps

flashmob + science =  
distributing tracking of bacterial  
populations across cities





# Gel Box 2.0

for sorting dna by size

the best commercial boxes cost > \$1200.

build an open source alternative for ~\$100

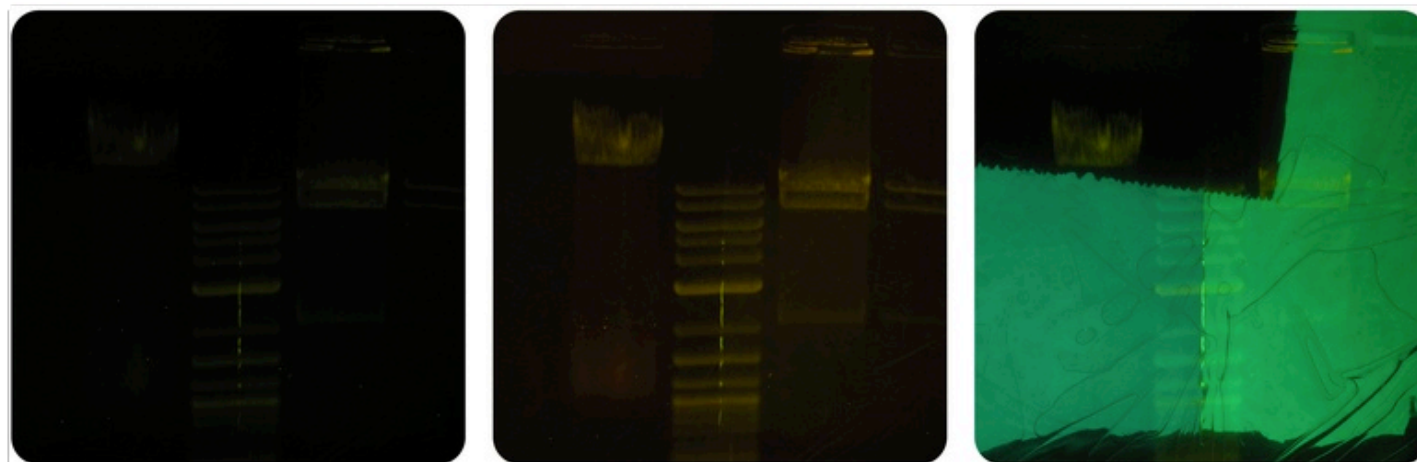
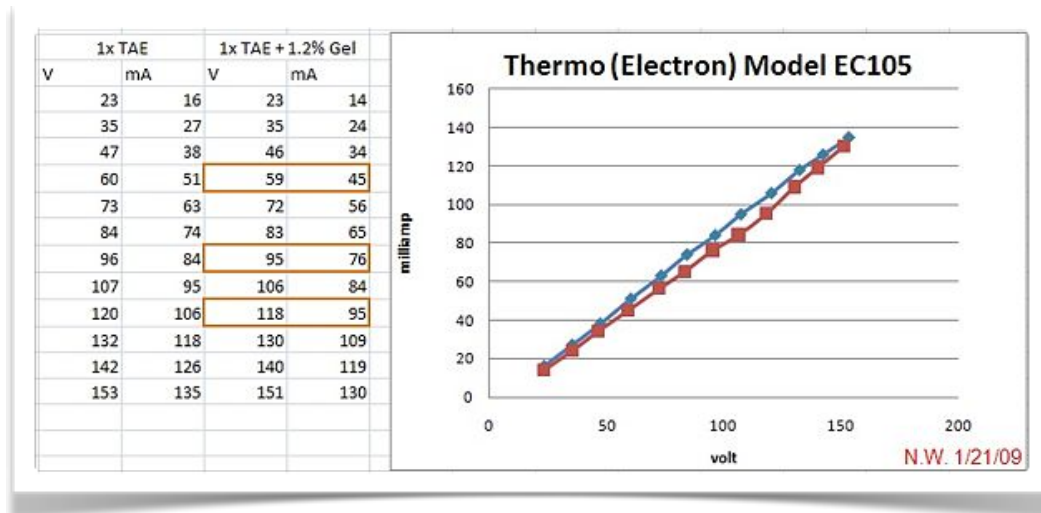


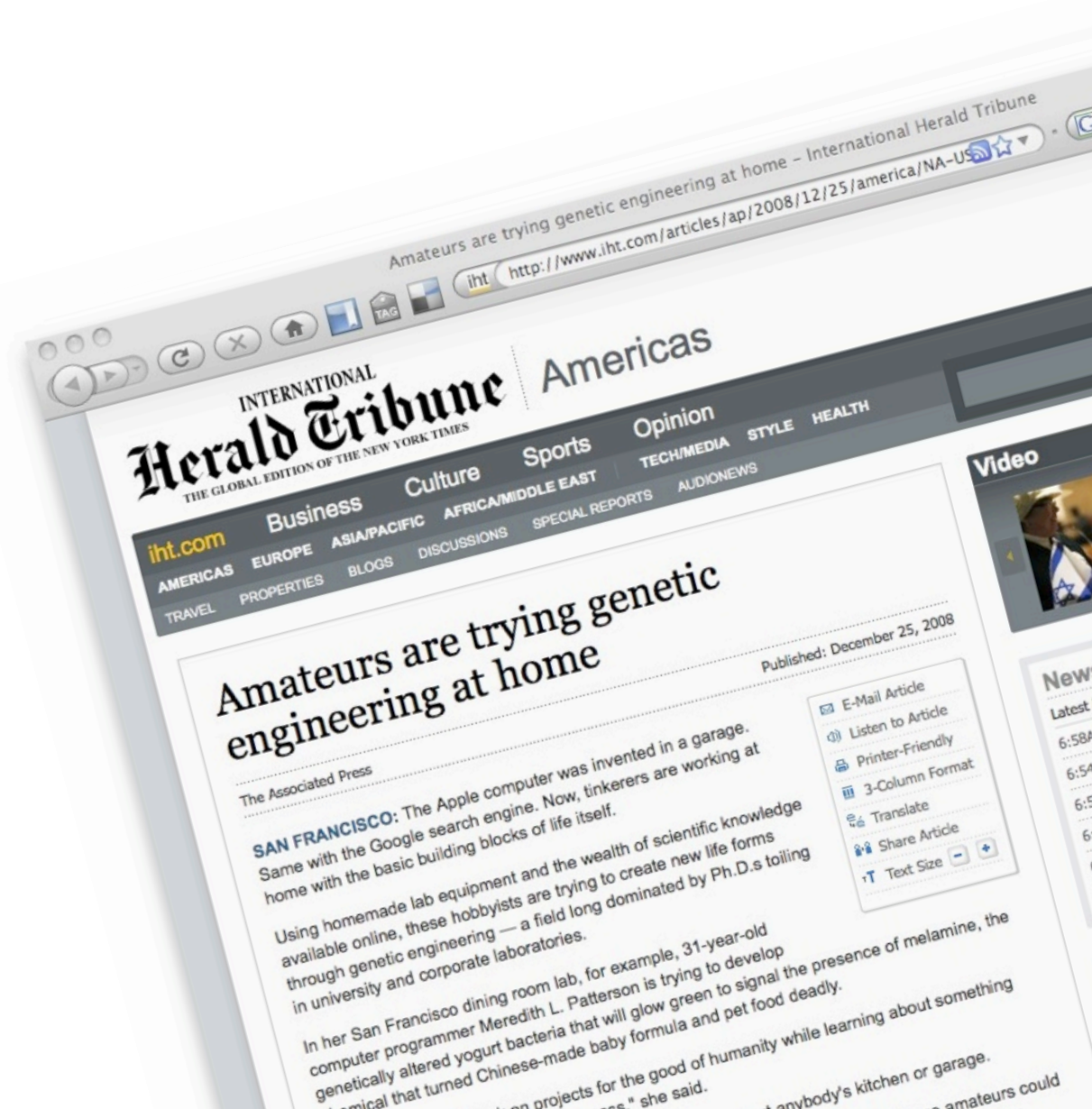
Image: Norman Wang - [http://bit.ly/GelBox2-transilluminator\\_image](http://bit.ly/GelBox2-transilluminator_image)





# GloGurt & Melaminometer

*Lactobacillus* “hello world” +  
biosensing melamine



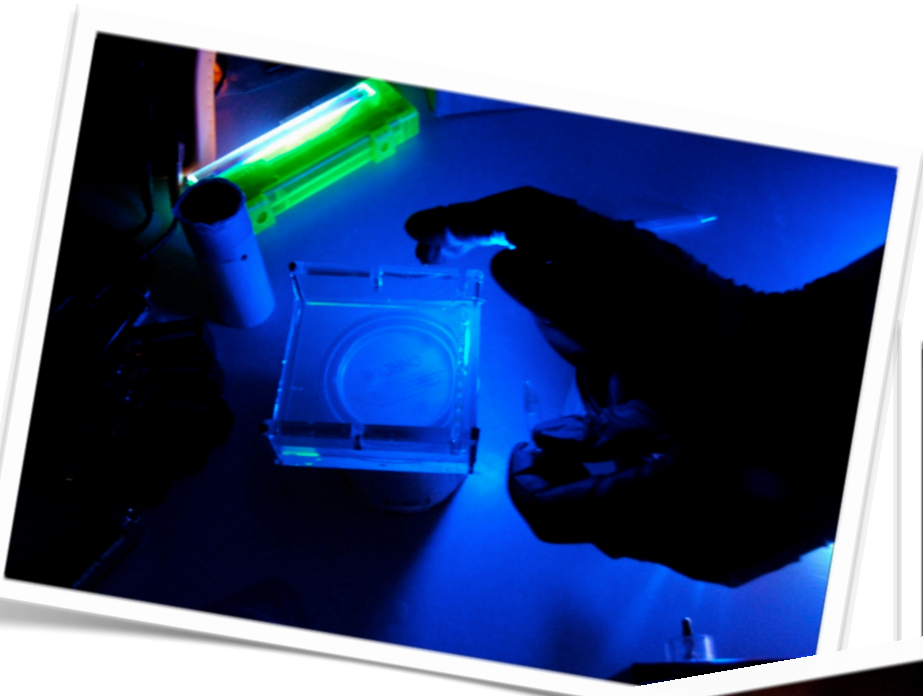


# diy-iGEM

Willoughby & Baltic wetlab (02144)

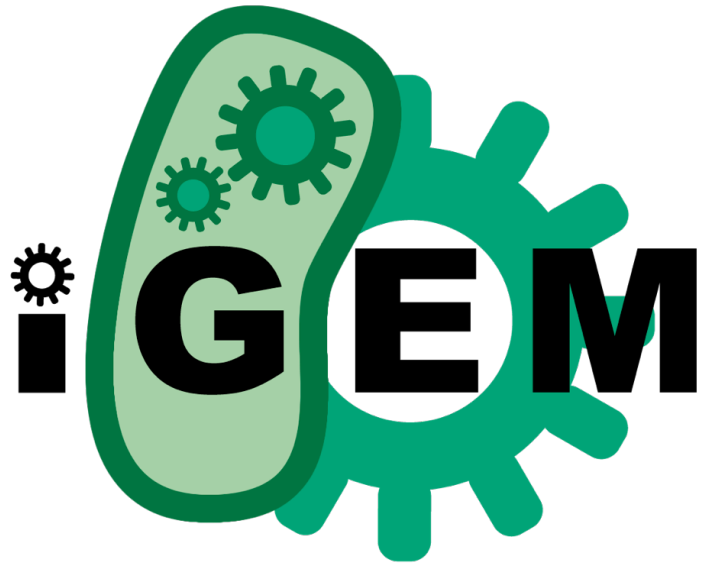
**we haz lab!**

working with better model organisms  
for diy work (ADPI)





# iGEM



- Resveratrol Beer
- Bacterial Photography
- odorant synthesis (banana!)
- arsenic & lead biosensors
- H. pylori vaccine



Team Registration ends March  
31 (\$500)  
Jamboree is Oct 31



# get involved?

bi-monthly biobeer meetups  
roughly two-weeks from today.





# **REAL HACKERS PROGRAM DNA**

thanks! [diybio.org](http://diybio.org)